

FIGURE 1A

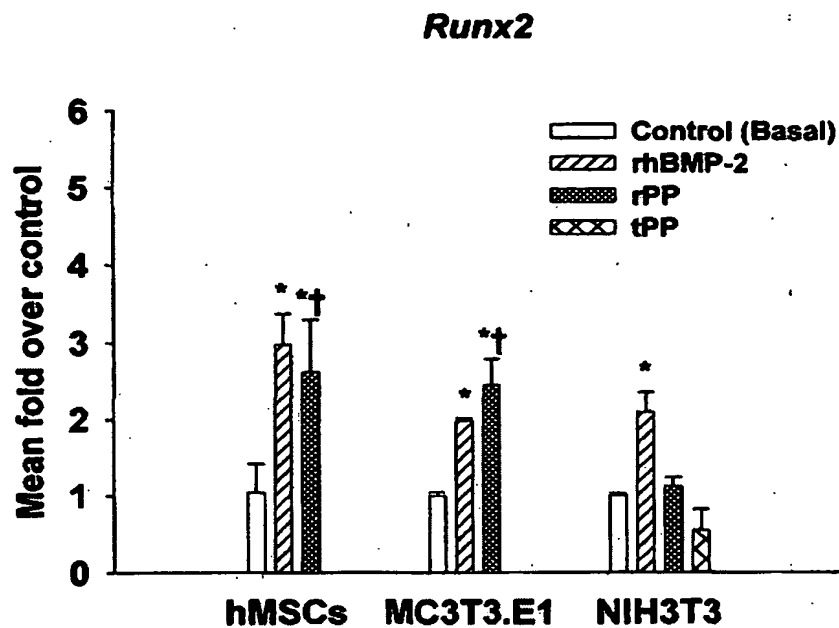
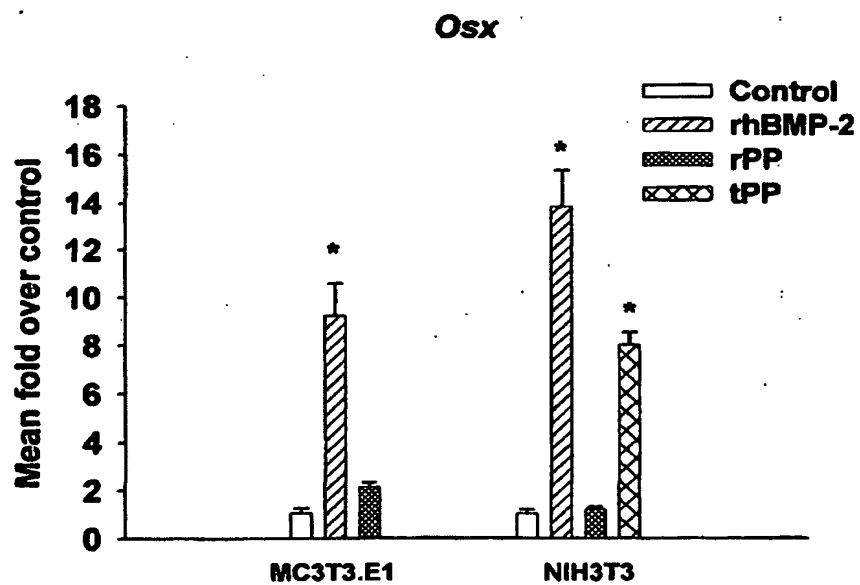


FIGURE 1B



2/37

FIGURE 1C

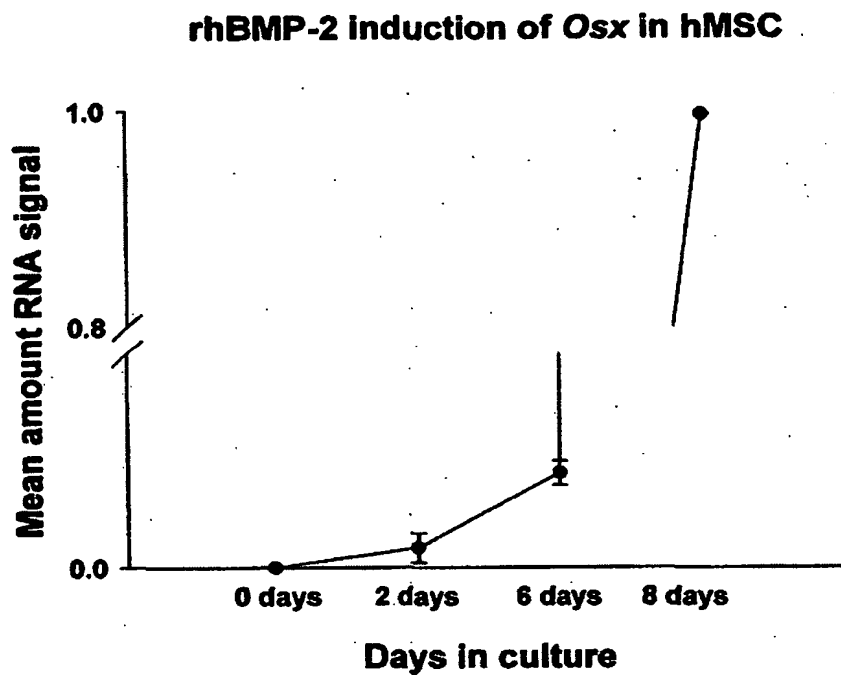
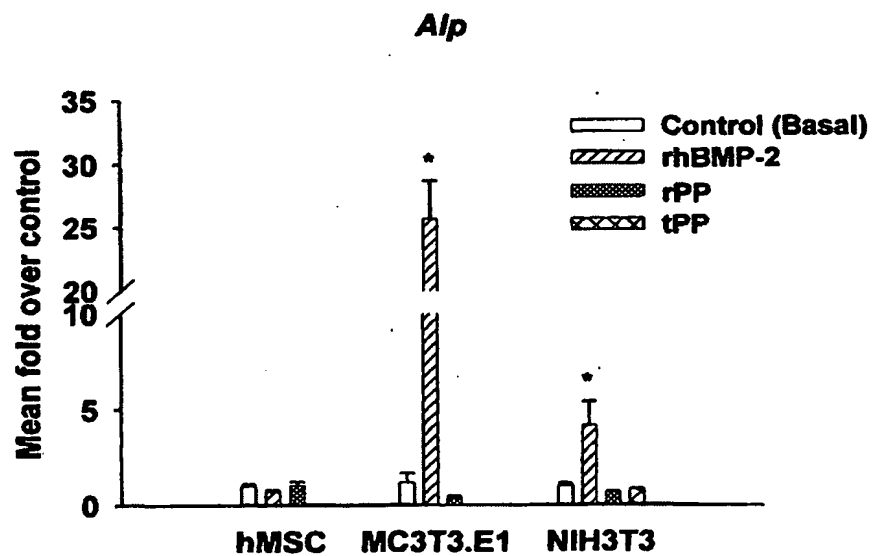


FIGURE 1D



3/37

FIGURE 1E

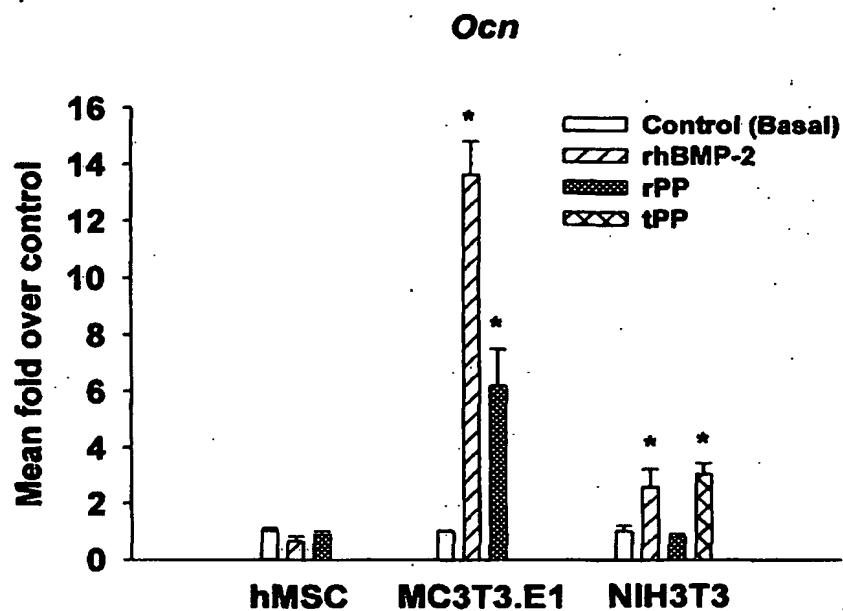
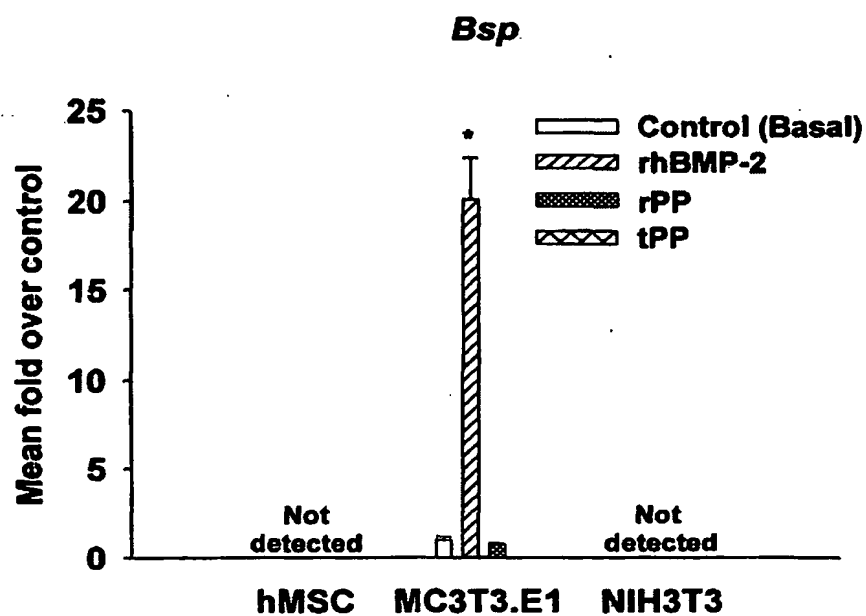


FIGURE 1F



4/37

FIGURE 2A

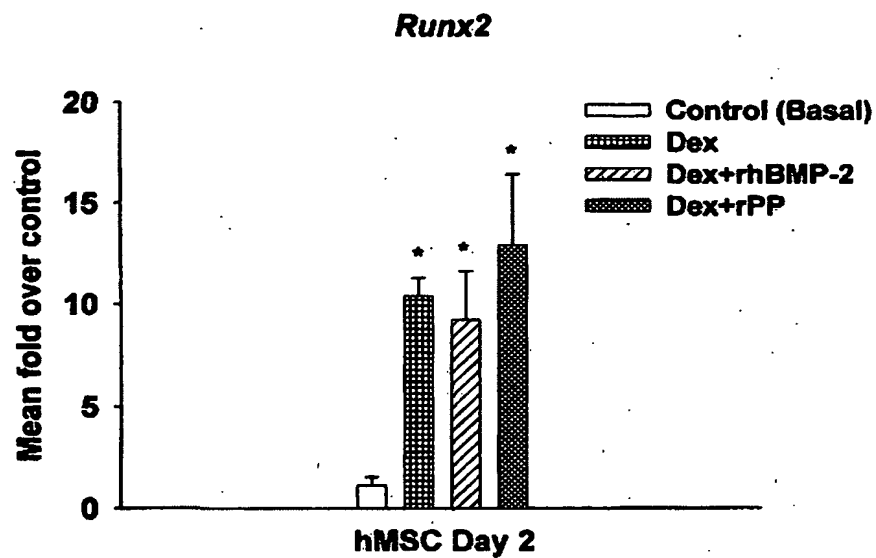
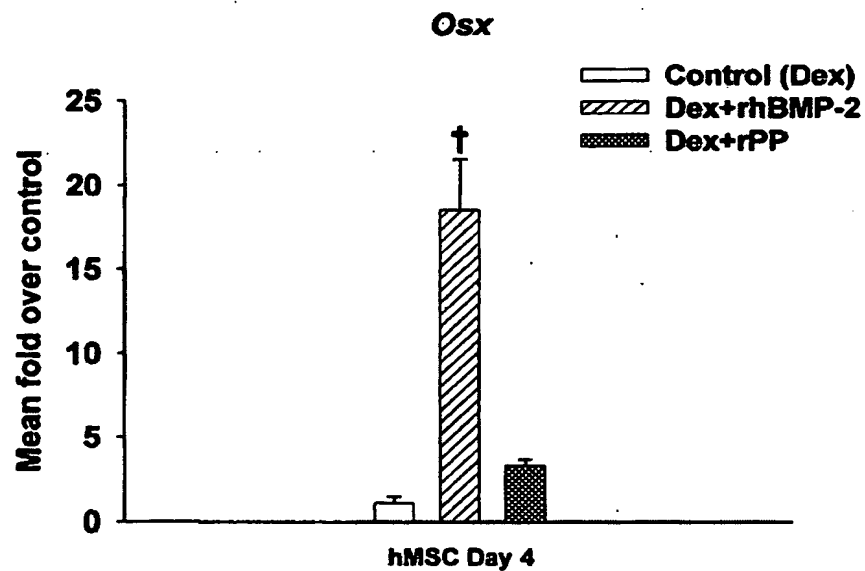


FIGURE 2B



5/37

FIGURE 2C

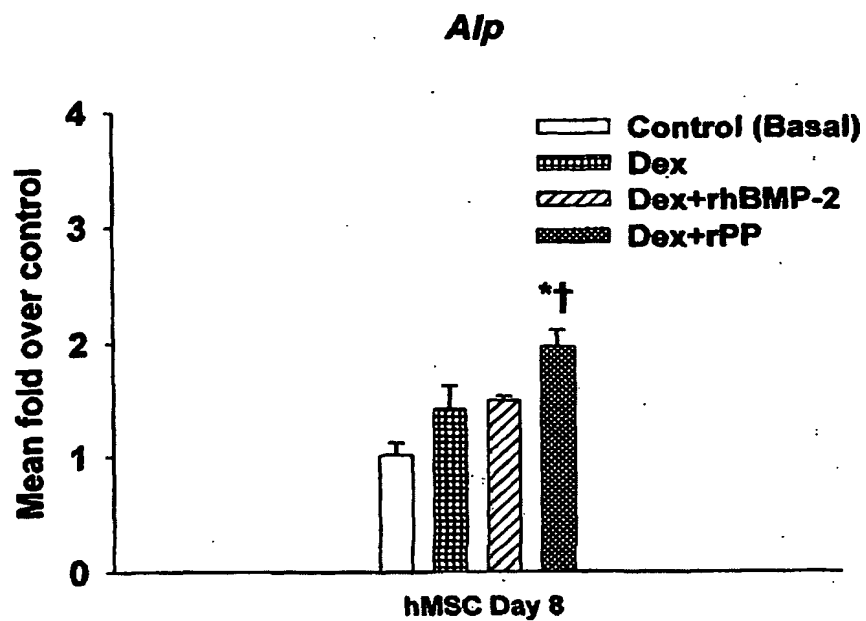
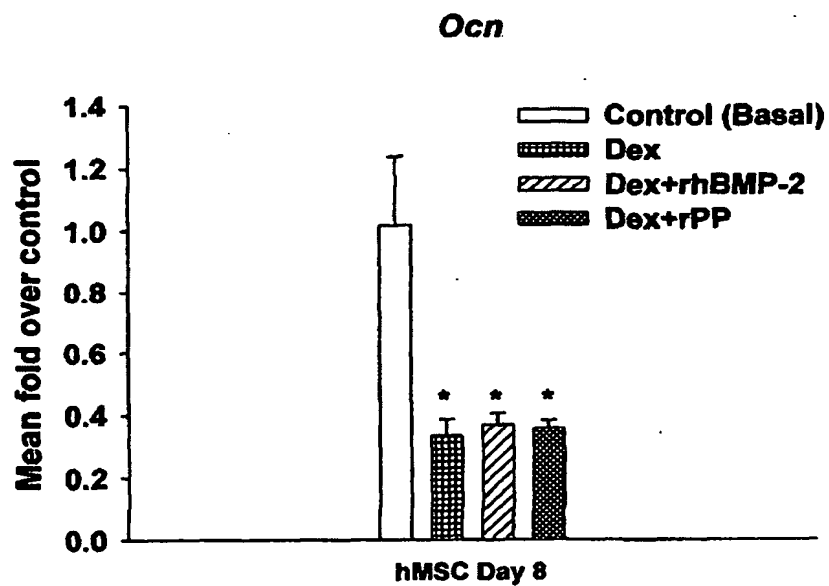
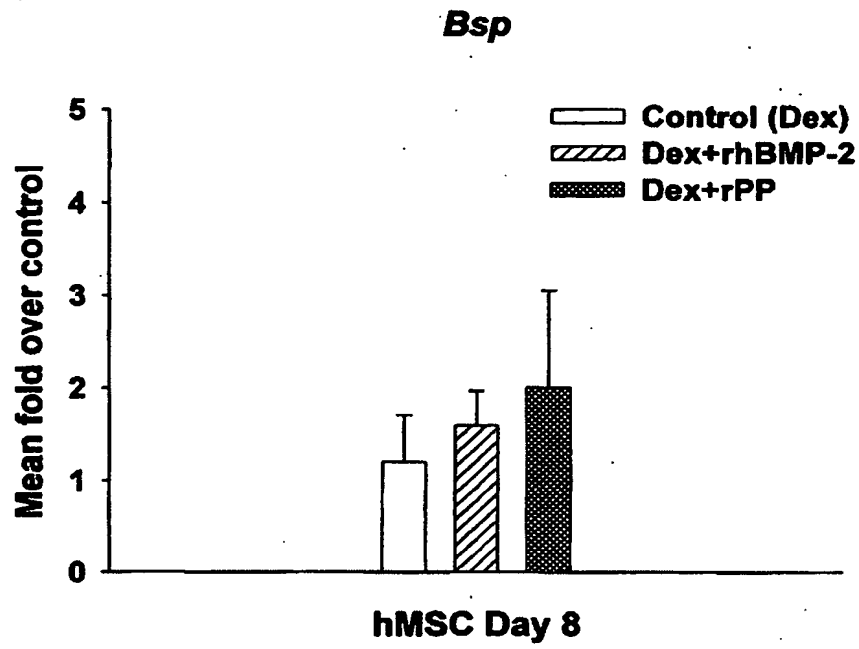


FIGURE 2D



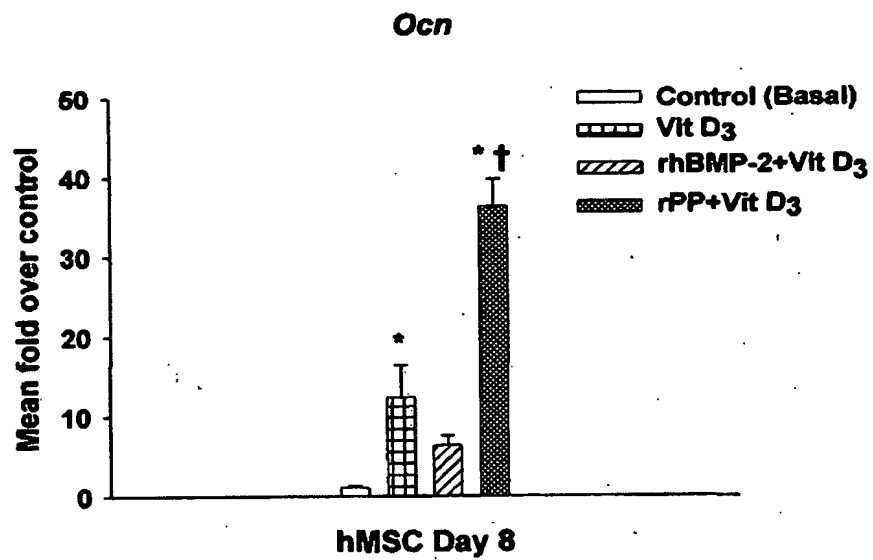
6/37

FIGURE 2E



7/37

FIGURE 3



8/37

FIGURE 4A

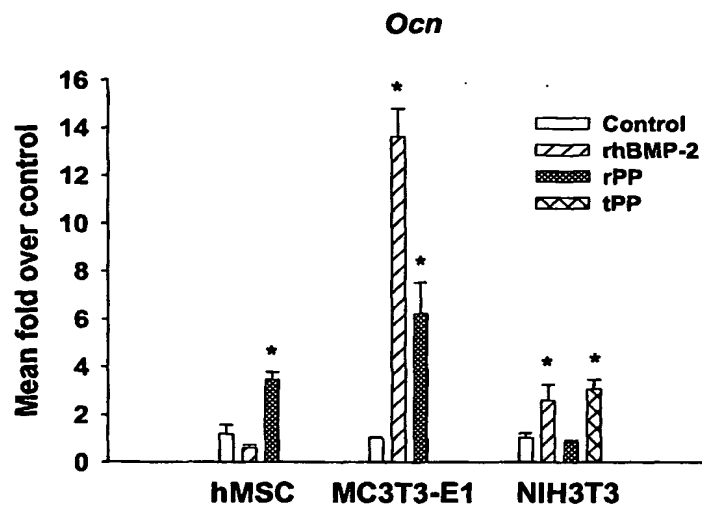
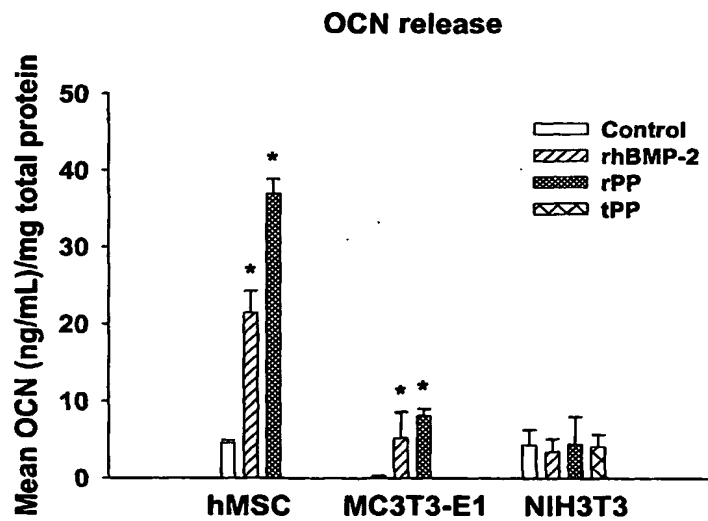
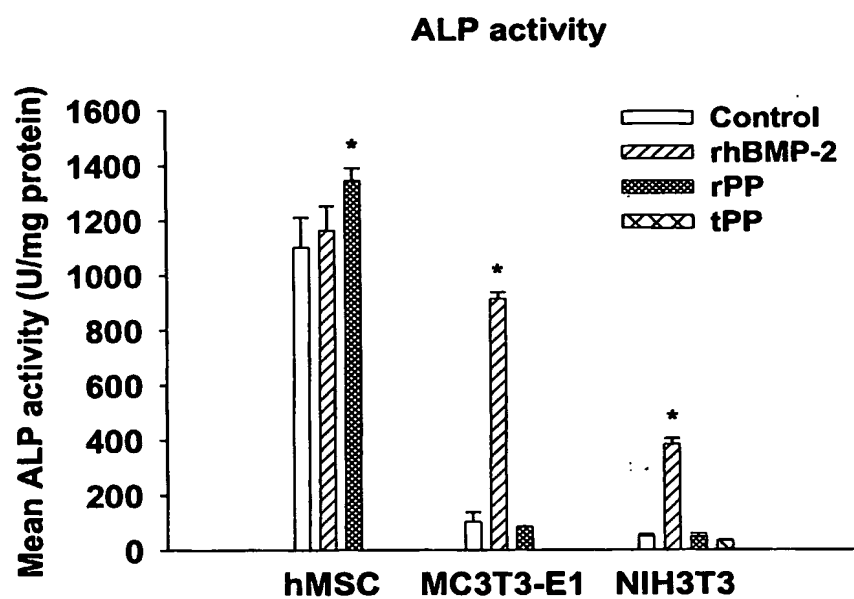


FIGURE 4B



9/37

FIGURE 5



10/37

FIGURE 6

FIGURE 6A

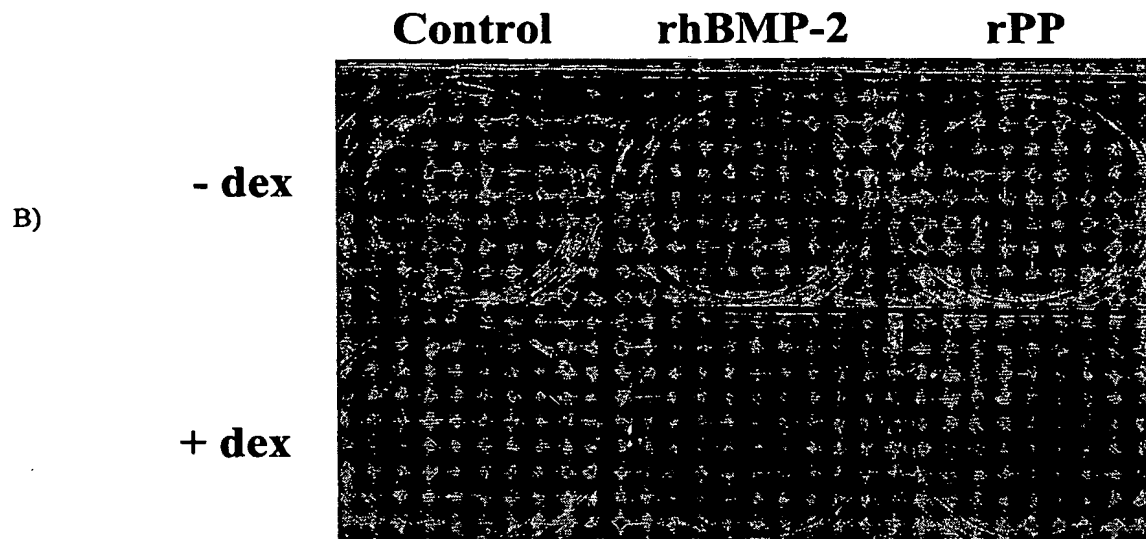
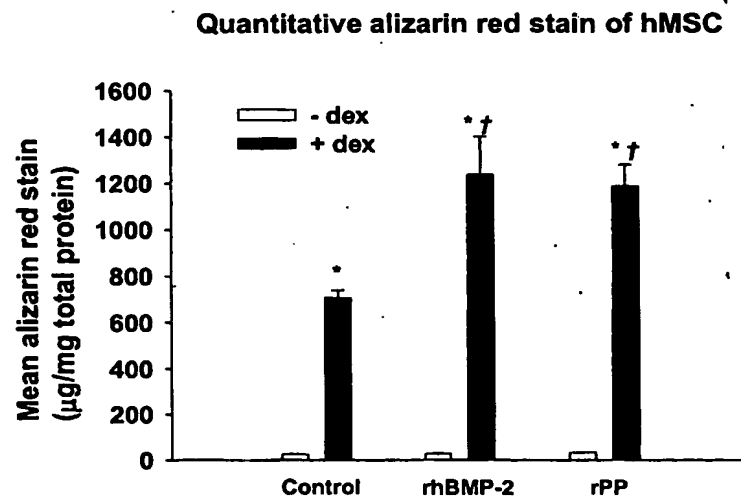
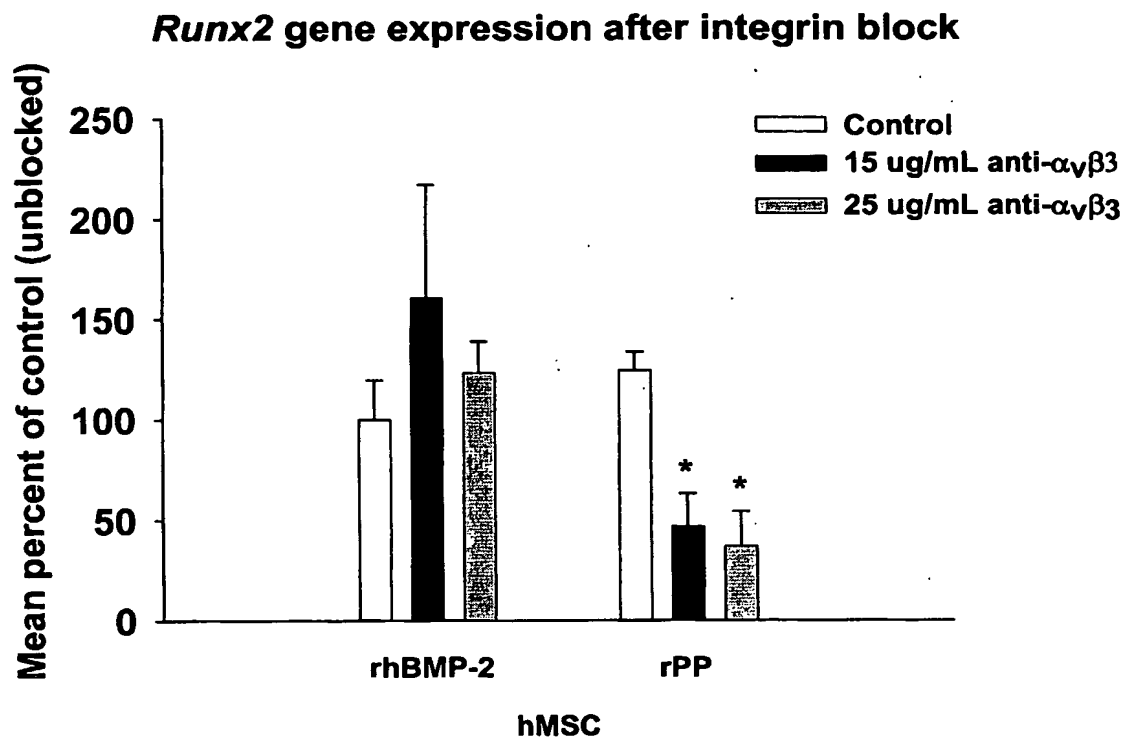


FIGURE 6B



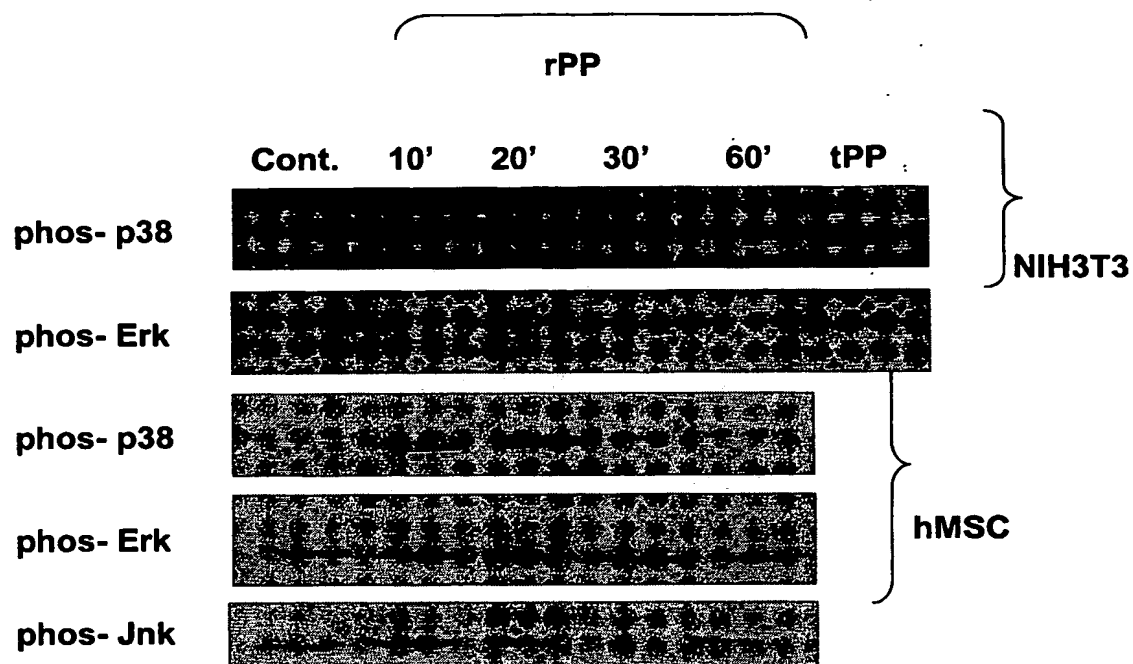
11/37

FIGURE 7



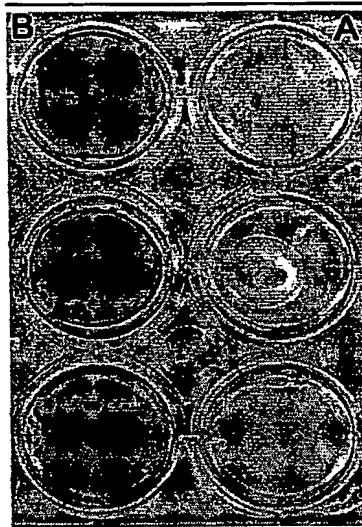
12/37

FIGURE 8



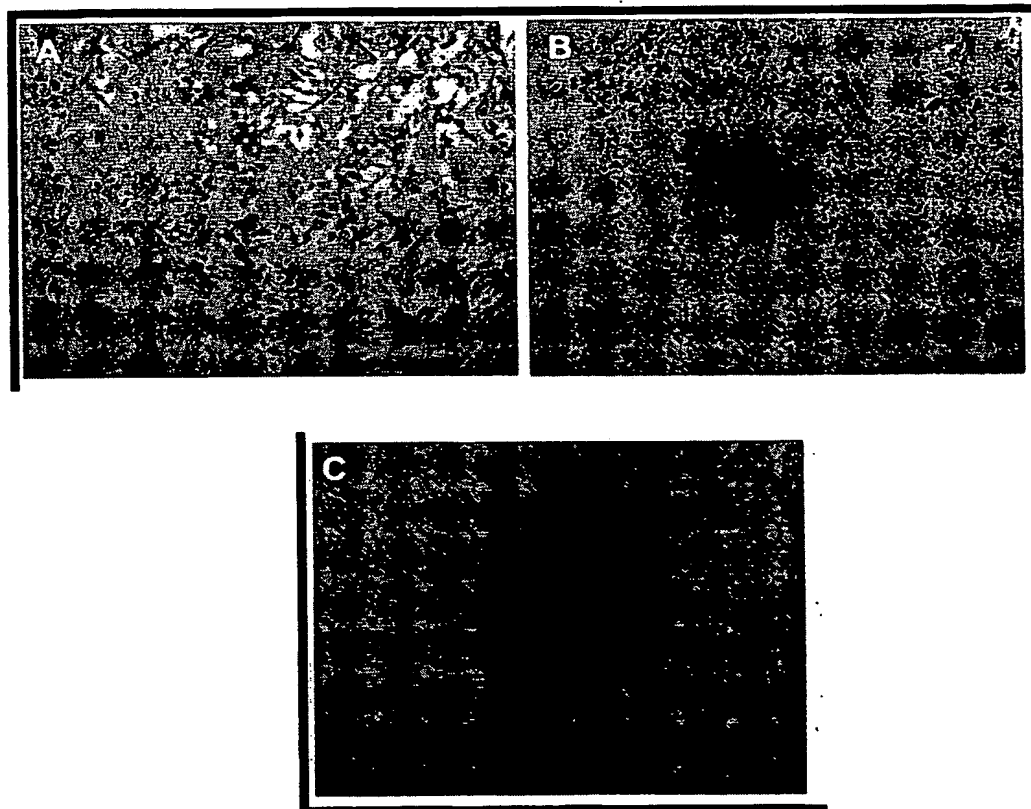
13/37

FIGURE 9



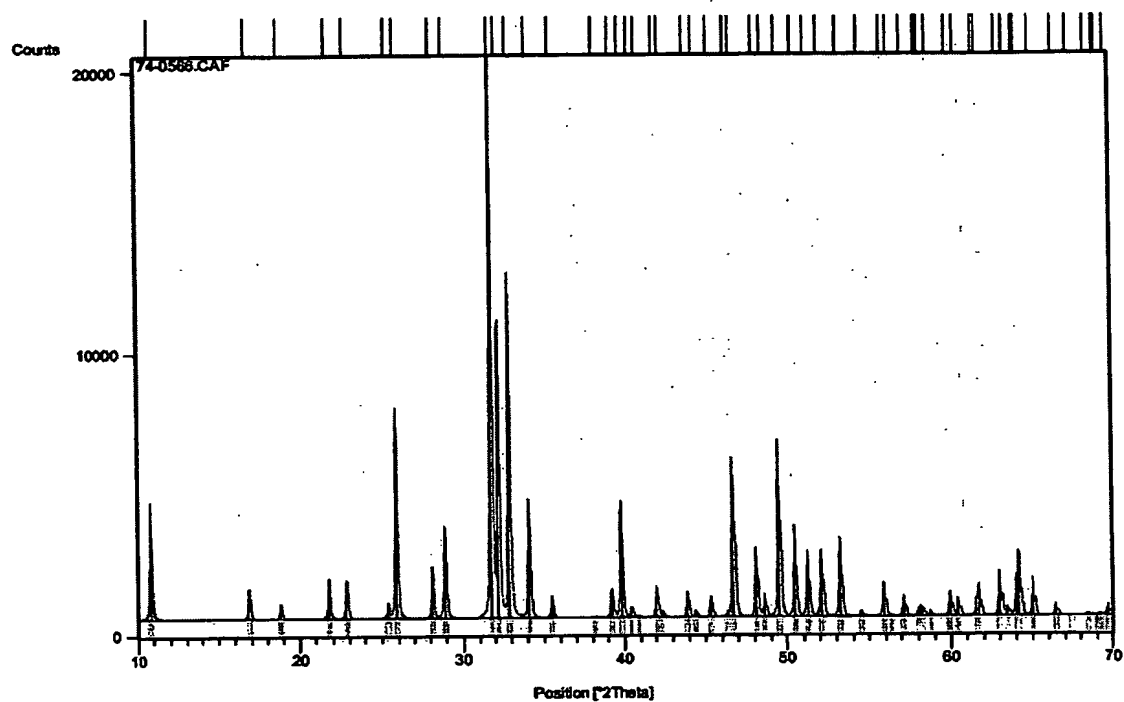
14/37

FIGURE 10



15/37

FIGURE 11



16/37

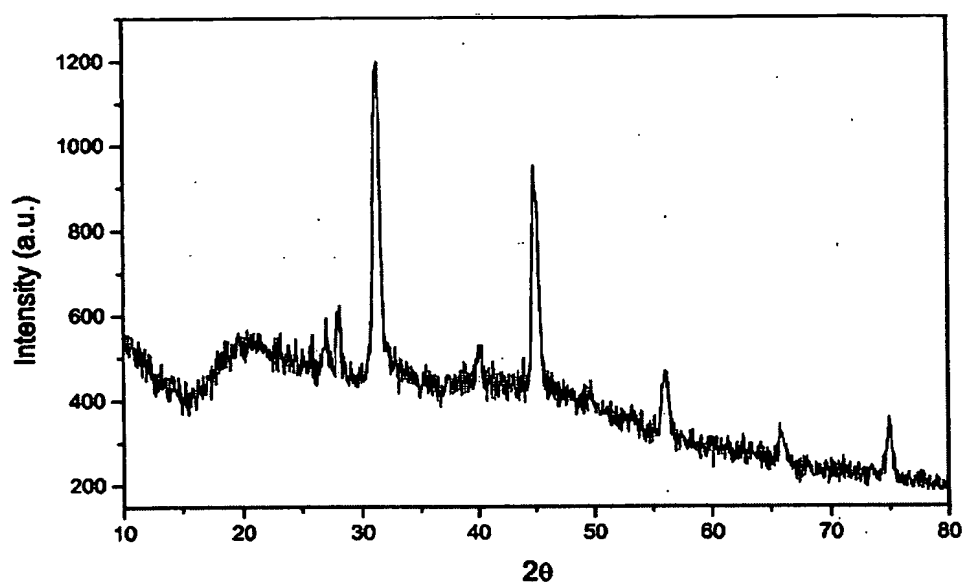
FIGURE 12

FIGURE 13

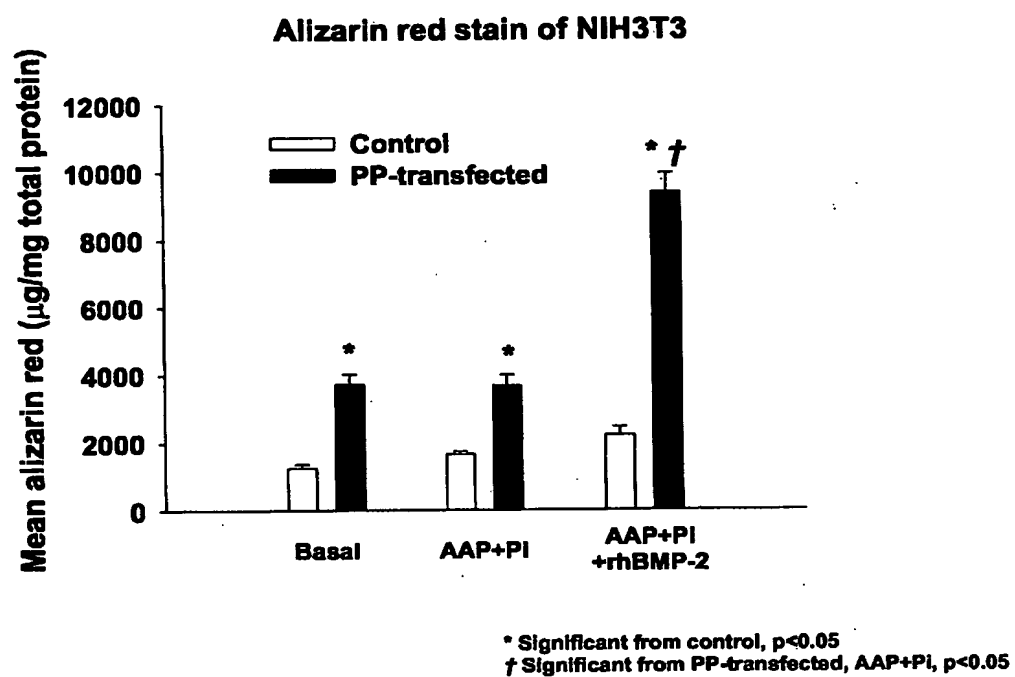
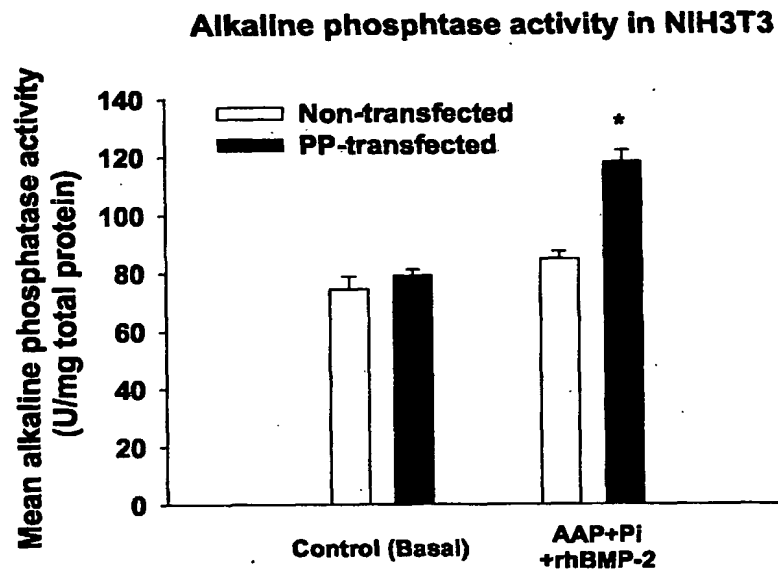
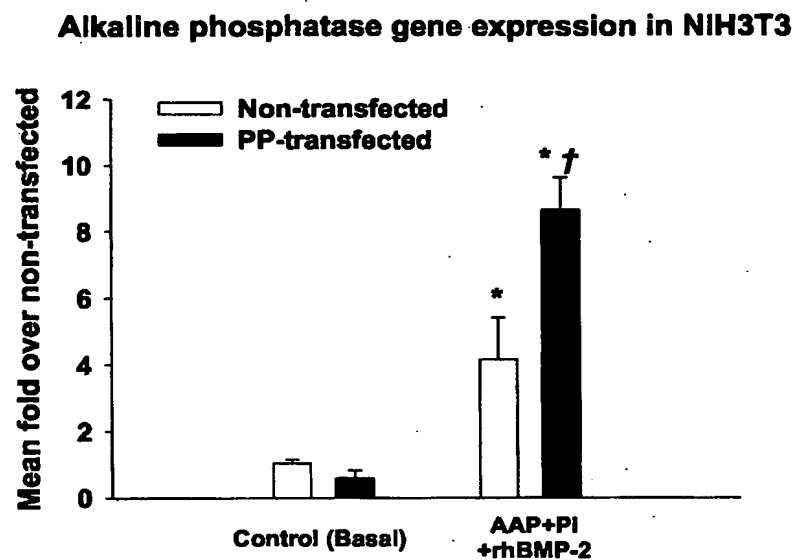


FIGURE 14



* Significant from PP-transfected (Control) and non-transfected (AAP+Pi+rhBMP-2), $p < 0.05$

19/37

FIGURE 15* Significant from Control (Basal), $p < 0.05$ † Significant from non-transfected (AAP+PI+rhBMP-2), $p < 0.05$

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22/37

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6901 cgcaggacaa ggaaaagctc agcccccagg acacccgaga tgcagagggt gggatcatca
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11461 ctagataata gcccacagta agtgctcatg tcaactgggtt atttctgtga agagacacca
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12421 acagcagttt ataataagagt acttctccct aactgcaata agacttaaaa ggcccaact
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12541 agagataaaa tggaaaaata ctttccatgt taaaaaaaa aaaaaggaaa acaggacagc

| | | | | | | |
|-------|-------------|-------------|-------------|-------------|-------------|-------------|
| 12601 | agaaggccct | tggattcttg | tatcatttca | ttttagttgt | catggagcta | gttacaatac |
| 12661 | gttactaat | gatcaccaatt | ttatgtcctc | tctctaagaa | tggtcaaaat | aaaacagact |
| 12721 | tacataagga | gagaactgag | aggtgggggtg | gtgattacaa | gcaatataga | tagagaaaag |
| 12781 | aaaaaaaagg | gcccttttcc | ggataagaaa | aaaaaggacc | attgggcggg | gcaagtttgg |
| 12841 | aactcagagc | tctctggctg | tgagatgctt | gtctgtcttt | tctgctaagg | gctcactgat |
| 12901 | acaatgttgc | aacaccttaa | ttccgaggag | taacatacaa | ggttttgctg | ctacatatag |
| 12961 | agtcaataaa | ttttattatt | ttattggcta | caaaatcttt | aaaacttttc | atgctattat |
| 13021 | cttgaatggc | atagataaaa | atztatatcg | aagcttggtt | acagtccaaa | actagtttaa |
| 13081 | gaaagatagt | tgtctttcac | ctgctcaaac | aatcaacaaa | aatcttcatt | gactgacctg |
| 13141 | tgcaccttgc | atagcccata | cattgtttgg | acagaactgt | atattacttg | cttgggggatg |
| 13201 | cttggttact | taaaataaca | accaaagaag | cagccccaac | aagatatagc | cttgggggatg |
| 13261 | ctgggatgcc | tgctcctgcc | tcagattgcc | ttgatgatgt | ttccttgggg | gacttggttc |
| 13321 | cagaatagct | tcagggaggg | ctgctgacct | cagatgacct | cagtttggtc | agtcttgcag |
| 13381 | atgggtccag | caagggagtc | aattaagccc | tgcaatttcc | tatcccacag | agactggaca |
| 13441 | gcaaagtata | cagttatttc | tcccaggatt | tgccagtat | cctaattttc | ttaggctctc |
| 13501 | caagagatgt | catcaaccct | aaacagcaga | aagcaattta | aagagaacat | gtcaccctat |
| 13561 | tccaaagaga | tagggatat | gatttttagt | tattctattg | ggatgatggg | ggttgatggt |
| 13621 | ataaaggggt | tggttgcaag | tttttaaatg | gtcttgatca | gggaaaaaac | caaggtatag |
| 13681 | caggttagac | tcaaggattt | cccttttttc | tttctctat | ccttctttct | tatataggga |
| 13741 | aagaagggtt | caaaacaaac | agggagatac | agggaaatat | agaaataata | agtagattat |
| 13801 | taaactctat | cttagagcta | ctactagcca | aaaatcttac | attcttatag | atcttcgat |
| 13861 | attgatatac | aattgaggtt | atattttggt | atattgctat | agatctttat | atattgatac |
| 13921 | aagatttgaa | gtactcatat | tggcattgga | cagatgtaac | tcatttgaag | atatttggtg |
| 13981 | aagttctagt | ctcttctaaa | gctgggtatta | caaactcttt | aggataatta | agaaatacaa |
| 14041 | gttgatagac | agtcaaacac | atggtaatat | tagatactag | aatagtttat | tacagtaaaa |
| 14101 | tacttcctag | ctaaaaccaa | gtttacctat | tcagatatcc | tgattagata | gatgatcttc |
| 14161 | aaaatccttg | gagacctaca | gaatatgaca | ttttaagggt | ttttttaaat | taaattaaga |
| 14221 | cttttcttga | cattgagaca | tgctcagctc | tcgcagtagc | ccattcaact | tggaaaaata |
| 14281 | tgtatgagct | tggaggacct | tcattttgag | atggattctg | ctggagtcca | actctgagtg |
| 14341 | aggaccaggg | ctctcatgct | cattaatgct | acttaagtaa | taggttctat | ggaagactca |
| 14401 | atcttctgcat | agctgactct | cccagggaac | taccatgaat | tttattctta | ataaacaccag |
| 14461 | atcttctgcat | aattgttaca | ttatcgcagc | cccagccttc | catgaggggc | ccttagaagc |
| 14521 | aagaaattca | aatattaatc | agaaacacaa | gcatacgttg | tgtagcaaat | ttccaccaag |
| 14581 | agcagcaatg | ggtcagttct | ggttgtccca | gcactggaac | attgtcaagc | aatgcctgca |
| 14641 | agagcttggc | atgaccaggc | tttcattatg | gcaagctagt | cactgggcaa | agagaatggt |
| 14701 | ctaacttcac | ttgcagacag | aatgctcttc | aaaatggaga | aaatttggtg | gcaggcaaaag |
| 14761 | tcgactgcca | agccctgcca | agacagggtg | agaatatcct | tcatagttcc | tgctccacaa |
| 14821 | acatgcctgt | cagatatact | ggggcagagg | cctgaagaca | gatgttccag | tgttatagag |
| 14881 | aattttgggg | attctccagt | cagctagatg | cttgccaatt | ctatagtttt | ggaagctgct |
| 14941 | tgcctacact | tcctacaaac | tcagtttaatt | atcccttccc | aagtctctga | tgggggttgaa |
| 15001 | gattatatag | tcatagtctc | acaatgaaac | ataacaaaga | atctaagaaa | gtgcttttagg |
| 15061 | gtctaaggag | gtgttttaag | gttggttaaat | gaagatcata | ggattagatg | gtgttttatg |
| 15121 | aaggttggag | gaaattgtaa | atgggtgttt | taggttggtg | aatgcaaatt | atgaaagtta |
| 15181 | gaggatttaa | atgcttaaga | tggttaattg | aaaagttaatt | taaatacaga | actctgaact |
| 15241 | caccaagatt | caatagataa | aaaatatctt | ctcctaagtt | gccaaatata | gatggactgg |
| 15301 | acattgtgaa | tatattttatt | acccatggat | ttcataattg | ctcttactga | tatagttcct |
| 15361 | tattgtaaga | gaaagatcct | tttttatatta | gacaaaaaag | gggaaatggt | gggggttggtc |
| 15421 | tggtgctgct | gtgtactcaa | atactaaata | ctgggtccca | agatctgatt | gctctcaatg |
| 15481 | agcagcagat | ctttacacac | caagtgatgc | catgtaaac | ttgctcccca | agttattgggt |
| 15541 | cgataaaaagg | ctaaagtctg | ggattgggca | gtagagagag | aaaggtggaa | gacttgagga |
| 15601 | tcaaatgagg | gtgtctcagg | agagatcagg | ggaggagata | agaagggaagt | gacaaaagaga |
| 15661 | ggaggagggt | gccatgagag | gagatggatc | atgagcacat | ggccaggaga | aacagcaact |
| 15721 | gacaagggac | atatggctgg | gatataagtt | acaatagctc | aaaaagtgtc | ccaatatagg |
| 15781 | cttacagctt | ataaataaaa | taccagaatc | atgcatcttt | aatgtggctt | agctagaata |
| 15841 | tgtaattcct | tttataccac | tgggcttaga | atgtcacccc | cagtgcacaca | cttccctcaa |
| 15901 | aaggccacat | atcctaattc | ttctcaagta | gtgccacttt | ctgatgacta | agtattaatg |

15961 tattggggcc attccttatcc aaactaccac agtcataata catctagcag gttcttagaa
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16081 ggaactcatg aaggaagatt atgaccttgt ttttcttgta taaccattta tatctgaatt
16141 tggaatttca gggcaaaaat ggaggagaca caattaaata tgtctcaagg ttcaatcctt
16201 tgaatgccag aaaagtatta ttagggaaaa ccttacgtta tttaccagaa taaagattaa
16261 taagcaattt cctcactactg ttcatcaggg caatgggtgt taggttctat ttctaatagac
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16381 tgtcagatct cctggagctg gagtgaagcc acttgtaagc tgctgatgt ggatgctgga
16441 aatcaaactt gaaaccttta ttagccctta tactcttaat tgctgagtc tctctccagt
16501 ttctgacagc agtggtccct aaatcccagg ttgctaata actagtcact tattataatt
16561 atatcaattt aatgagttac aaaaatactt aagatgaaag agtaaggtaa aatcataaca
16621 gtgtgtttgt aaactatata catatacata ttgtcttagt taggatttac tgtgggaaca
16681 gacaccatga ccaatacaag tcttataaag ggtaacattt aattgagata gcttacaggt
16741 tcagagggtc agtccattat catcaaggca tggcagcatc caggtaggca tgggtcaaga
16801 ggactgagag ttctacatct tcacctgaag gttgctagaa gaatactgac ttccaggtag
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17041 aactgtttgt tgtggttagg aaaattagag aaccattggt ttaggaagac attactgccc
17101 tggtaatgtg atactgattt tcaacattca cctttctcct taaaaacctc taacttgctt
17161 gcccaacttt gaagatggaa aatttaaaaag aaagcacaag aaatattggg ggtgtatctg
17221 aatgggtaga agggatcga

SEQ ID NO:7**Amino acid sequence of human phosphophoryn****GenBank Accession No. NP_055023**

1 mkiityfcw avawaipvpq skplerhvek smnlhlars nvsvqdelna sgtikesgvl
61 vhegdrgrqe ntqdgkheg ngskwaevvg ksfsystla neegniegwn gdtgkaetyg
121 hdgihgkeen itangiqqqv siidnagatn rsntngntdk ntqngdvqda ghnedvavvq
181 edgpqvagsn nstdnedeii enscrnegnt seitpqinsk rngtkeaevt pgtgedagld
241 nsdgspsgng adededegsg ddedeeagng kdssnnskqg egqdhgkedd hdssigqnsd
301 skeyydpqk edphnevvdg ktskseensa gipedngsqz iedtqklhr eskrvenrit
361 kesethavgk sqdkgieikg pssgnrnitk evgkgnegke dkgqghmilg kgnvktqgev
421 vniepggqks epgnkvghsn tgdsnsdgy dsydfddksm qgddpnssde sngnddanse
481 sdnnssrgd asynsdeskd ngngsdskga eddssdstsd tnnssdngng nngndndks
541 dsgkgksdss dsdssdsns sdssdsdssd ssdsnsdss dsdssdsdss dsdssdsdss
601 ssdssdsdss dsdssdsdss dsksdsskse dsdssdsdss dsdssnsdss dsdssdsdss
661 nssnsdssd ssdssdsdss dsdssdsdss nssdsdssd ssnsessdss dsdssdsdss
721 ssdssnsdss dsdssnsdss dsdssdsdss nssdsdssd ssnsdssdss dsdssdsdss
781 nssdsndssn ssdssdsdss dsdssdsdss dsdssdsdss ssnsdssns dsdssdsdss
841 ssdssdsdss dsdssnsrd ssnsdssdss dsdssdsdss ssnsdssns dsdssdsdss
901 snssdsdssd ssnsdssdss snssdsdss nssdsnsdss ssnsdssdss dsdssdsdss
961 nsgdssnsd ssdsnsdss dsdssdsdss ssdssdsdss dsdssdsdss dsdssdsdss
1021 ssdssnsdss dsdssdsdss dsdssnsd ssdssdsdss dsdssdsdss dsdssdsdss
1081 ssdssdsdss dsdssdsdss dsdssdsdss ssdssdsdss dsdssdsdss nssdsdssd
1141 ssdssdsdss dsdssdsdss dsdssdsdss ssdssdsdss dsdssdsdss dsdssdsdss
1201 ssdssdsdss dsdssdsd dsdssdsdss nngsdssd segdsdnhst sdd

SEQ ID NO:8**Nucleotide sequence of human phosphophoryn****GenBank Accession No. NM_014208**

| | | | | | | |
|------|------------|------------|-------------|-------------|-------------|-------------|
| 1 | atgcaaaagt | ccaggacagt | gggccacttt | cagtcttcaa | agagaaagat | aagaaattct |
| 61 | ggatthtcaa | aatccttttg | aagcctttta | agccattgat | tattattatt | cctaaagaaa |
| 121 | atgaagataa | ttacatattt | ttgcatttgg | gcagtagcat | gggccattcc | agttcctcaa |
| 181 | agcaaacac | tggagagaca | tgtcgaaaaa | tccatgaatt | tgcattctct | agcaagatca |
| 241 | aatgtgtcag | tacaggatga | gttaaatgcc | agtggaaacca | tcaaagaaaag | tgggtgtcctg |
| 301 | gtgcatgaag | gtgatagagg | aaggcaagag | aatacccaag | atggtcacaa | gggagaaggg |
| 361 | aatggctcta | agtgggcaga | agtaggaggg | aagagttttt | ctacatattc | cacattagca |
| 421 | aacgaagagg | ggaatattga | gggctggaat | ggggacacag | gaaaagcaga | aacatatggt |
| 481 | catgatggaa | tacatgggaa | agaagaaaac | atcacagcaa | atggcatcca | gggacaagta |
| 541 | agcatcattg | acaatgctgg | agccacaaac | agaagcaaca | ctaattggaaa | tactgataag |
| 601 | aatacccaaa | atggggatgt | tggcgatgca | ggtcacaaatg | aggatgtcgc | tgttgtccaa |
| 661 | gaagatggac | ctcaagtagc | tggaaagcaat | aacagtaacg | acaatgagga | tgaaataatt |
| 721 | gagaattcct | gtagaaacga | gggtaataca | agtgaataaa | cacctcagat | caacagcaag |
| 781 | agaaatggga | ctaaggaagc | tgaggtaaca | ccaggcactg | gagaagatgc | tggcctggat |
| 841 | aattccgatg | ggagtcctag | tgggaatgga | gcagatgagg | atgaagacga | gggttctggt |
| 901 | gatgatgaag | atgaagaagc | agggaaatgga | aaagacagta | gtaataacga | caaggggcag |
| 961 | gagggccagg | accatgggaa | agaagatgat | catgatagta | gcataggtca | aaattcggat |
| 1021 | agtaaagaat | attatgaccc | tgaaggcaaa | gaagatcccc | ataatgaagt | tgatggagac |
| 1081 | aagacctcca | agagttagga | gaattctgct | ggtattccag | aagacaatgg | cagccaaaga |
| 1141 | atagaggaca | cccagaagct | caaccataga | gaaagcaaac | gcgtagaaaa | tagaatcacc |
| 1201 | aaagaatcag | agacacatgc | tgttgggaag | agccaagata | agggaataga | aatcaagggg |
| 1261 | cccagcagtg | gcaacagaaa | tattacaaa | gaagttggga | aaggcaacga | aggtaaagag |
| 1321 | gataaaggac | aacatggaat | gatcttgggc | aaaggcaatg | tcaagacaca | aggagaggtt |
| 1381 | gtcaacatag | aaggacctgg | ccaaaaatca | gaaccaggaa | ataaagttgg | acacagcaat |
| 1441 | acaggtagtg | acagcaatag | tgatggatat | gacagttatg | atthttgatga | taagtccatg |
| 1501 | caaggagatg | atcccaatag | cagtgatgaa | tctaattggca | atgatgatgc | taattcagaa |
| 1561 | agtgacaata | acagcagtag | ccgaggagat | gcttcttata | actctgatga | atcaaaagat |
| 1621 | aatggcaatg | gcagtgactc | aaaaggagca | gaagatgatg | acagtgatag | cacatcagac |
| 1681 | actaataata | gtgacagtaa | tggcaatggt | aacaatggga | atgatgacaa | tgacaaatca |
| 1741 | gacagtggca | aaggtaaatc | agatagcagt | gacagtgata | gtagttagtc | gacgaatagc |
| 1801 | agtgatagta | gtgacagcag | tgacagtgc | agcagtgata | gcaacagtag | cagtgatagt |
| 1861 | gacagcagtg | acagtgcagc | cagtgatagc | agtgcagtg | atagttagtg | tagcagcaat |
| 1921 | agcagtgcag | gtagtgcagc | cagtgatagc | agtgcagta | gtgatagtag | tgacagcagt |
| 1981 | gacagcaagt | cagacagcag | caaatacagag | agcgacagca | gtgatagtag | cagtaagtca |
| 2041 | gacagcagtg | acagcaacag | cagtgcagct | agtgcacaac | gtgatagcag | cgacagcagc |
| 2101 | actagcagta | acagcagtg | tagtagtgac | agcagtgata | gcagtgcagc | cagcagtagc |
| 2161 | agtgcagcag | gcagtgcagc | tgacagcagc | aacagcagtg | atagttagtg | cagttagtgac |
| 2221 | agcagcaata | gcagtgcagc | cagtgatagt | agtgcagcag | gtgatagtag | cagcagtgat |
| 2281 | agtagtgaca | gcagtaatag | taacagcagc | gatagtgcag | gcagcaacag | cagcgatagc |
| 2341 | agtgcagcag | gtgatagcag | tgacagcagc | aacagcagtg | acagtgcagc | tagcagtgac |
| 2401 | agcagcaaca | gcagtgcagc | cagtgatagc | agtgcagcag | gtgatagtag | tgacagcagc |
| 2461 | aacagcagtg | atagcaacga | cagcagcaat | agcagtgcag | gcagtgcagc | cagcaacagc |
| 2521 | agtgcagcag | gcaacagcag | tgatagcagt | gatagcagtg | acagcagtg | tagcgacagc |
| 2581 | agcaatagca | gtgacagcag | taatagtagt | gacagcagcg | atagcagcaa | cagcagtgat |
| 2641 | agcagcgaca | gcagcgatag | cagtgcagc | agtgcagcag | acagcagcaa | tagaagtgc |
| 2701 | agtagtaata | gtagtgcagc | cagcgatagc | agtgcagcag | gcaacagcag | tgacagcagt |
| 2761 | gatagtagtg | acagcagtg | cagcaacgaa | agcagcaata | gcagtgcagc | cagtgcagc |
| 2821 | agcaacagca | gtgatagtg | cagcagtgat | agcagcaaca | gcagtgcagc | cagtgcagc |
| 2881 | agcaacagca | gtgatagcag | tgaaagcag | aatagtagtg | acaacagcaa | tagcagtgac |
| 2941 | agcagcaaca | gcagtgcagc | cagtgcagc | agtgcagcag | gtaatagtag | tgacagcagc |
| 3001 | aatagcggtg | acagcagcaa | cagcagtgac | agcagtgata | gcagtgcagc | cagtgcagc |
| 3061 | gacagcagca | acagcagcga | tagcagtgac | agcagtgata | gcagtgcagc | cagtgcagc |
| 3121 | agtgcagcag | gcaacagcag | tgatagcagt | gacagcagtg | acagcagtg | tagcagtaat |
| 3181 | agtagtgaca | gcagcaacag | cagtgcagc | agcgatagca | gtgacagcag | cgatagcagt |
| 3241 | gacagcagtg | acagcagcaa | tagcagtgac | agcagtgaca | gcagcgacag | cagtgcagc |

29/37

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3301 agtgacagca gtggcagcag cgacagcagt gatagcagtg acagcagtga tagcagcgat
3361 agcagtgaca gcagcgacag cagtgcacagc agtgacagca gtgaaagcag cgacagcagc
3421 gatagcagcg acagcagtga cagcagcgac agcagtgaca gcagcgatag cagcgacagc
3481 agcgacagca gcgatagcag tgacagcagc aatagcagtg atagcagcga cagcagtgat
3541 agcagtgaca gcagcgacag cagcgatagc agcgacagca gtgatagtag tgatagcagt
3601 gacagcagtg acagcagcga cagcagtgc acagcgaca gcagtgcacag cagcgacagc
3661 agtgacagca atgaaagcag cgacagcagt gacagcagcg atagcagtga cagcagcaac
3721 agcagtgaca gcagcgacag cagtgcacagc agtgacagca catctgcacag caatgatgag
3781 agtgacagcc agagcaagtc tggtaacggt aacaacaatg gaagtgcacag tgacagtgc
3841 agtgaaggca gtgacagtaa ccactcaacc agtgatgatt agaacaaaag aaaaacccat
3901 aagattcctt ttgtgaaaag ttttggtaat ggataggaaa aaaagatttc caagaaagta
3961 aagaaagggg agaaataaac ataagacgta tgtaaacaaa aacaactggg ggaatcaaat
4021 caaacagttg gattcagaac caagacctaa ctctgcaga gacagactct gaatgcatga
4081 cctttggtac atgcctgtta atattcatgt tctgaaaata ttttgtaaaa agtgtaaatc
4141 taaacataaa agaacaatta aaatattctt taatacttca cacagaa

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SEQ ID NO: 9**Amino acid sequence of BMP-2****GenBank Accession Number: NP_001191**

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1 mvagtrclla lllpqvllgg aaglvpelgr rkfaaassgr pssqpsdevl sefelrllsm
61 fgllkqrptps rdavvppym llyrrhsgqp gspapdhrle raasrantvr sfhheeslee
121 lpetsgktttr rfffnlssip teefitsael qvfreqmqda lgnsssfhhr iniyeiikpa
181 tanskfpvtr lldtrlvnqn asrwesfdvt pavmrwtagg hanhgfvvev ahleekggvs
241 krhvrirsrl hqdehswsqi rpllvtfghd gkghplhkre krqakhkqrk rlkssckrhp
301 lyvdfsdvgw ndwivappgy hafychgecp fpladhlnt nhaivqtlvn svnskipkac
361 cvptelsais mlyldenekv vlknyqdmv egcgr

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SEQ ID NO: 10**Nucleotide sequence of human BMP-2****GenBank Accession number NM_001200**

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1 ggggacttct tgaacttgca gggagaataa cttgcgcacc ccactttgcg ccggtgcctt
61 tgccccagcg gagcctgctt cgccatctcc gagccccacc gccctccac tctcggcct
121 tgcccgacac tgagacgctg tccccagcgt gaaaagagag actgcgcggc cggcaccgg
181 gagaaggagg aggcaaagaa aaggaacgga cattcggtcc ttgcgccagg tcttttgacc
241 agagtttttc catgtggacg ctctttcaat ggacgtgtcc ccgctgtctt cttagacgga
301 ctgcggtctc cttaaaggctc accatgggtg ccgggaccgc ctgtcttcta gcgttgctgc
361 ttccccaggt cctcctgggc ggcgcggctg gcctcggtcc ggagctgggc cgcaggaagt
421 tcgcgcggc gtcgtcggc cgccctcat ccagccctc tgacgaggtc ctgagcgagt
481 tcgagttgcg gctgctcagc atgttcggcc tgaaacagag acccaccacc agcagggacg
541 ccgtggtgcc cccctacatg ctagacctgt atcgaggca ctcaggtcag ccgggctcac
601 ccgccccaga ccaccggttg gagagggcag ccagccgagc caacactgtg cgcagcttcc
661 accatgaaga atctttggaa gaactaccag aaacagtggt gaaaacaacc cggagattct
721 tctttaattt aagttctatc cccacggagg agtttatcac ctcagcagag cgttaggttt
781 tccgagaaca gatgcaagat gctttaggaa acaatagcag tttccatcac cgaattaata
841 tttatgaaat cataaaacct gcaacagcca actcgaaatt ccccgtagac agacttttgg
901 acaccaggtt ggtgaatcag aatgcaagca ggtgggaaag ttttgatgtc acccccgctg
961 tgatgcggtg gactgcacag ggacacgcca accatggatt cgtggtggaa gtggcccaact
1021 tggaggagaa acaaggtgtc tccaagagac atgttaggat aagcaggtct ttgcaccaag

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1081 atgaacacag ctggtcacag ataaggccat tgctagtaac ttttggccat gatggaaaag
1141 ggcacacctt ccacaaaaga gaaaaacgtc aagccaaaca caaacagcgg aaacgcctta
1201 agtccagctg taagagacac cctttgtacg tggacttcag tgacgtgggg tggaatgact
1261 ggattgtggc tccccgggg tatcacgcct ttactgcc cggagaatgc ccttttcctc
1321 tggctgatca tctgaactcc actaatcatg ccattgttca gacgttggtc aactctgtta
1381 actctaagat tcctaaggca tgctgtgtcc cgacagaact cagtgtatc tcgatgctgt
1441 accttgacga gaatgaaaag gttgtattaa agaactatca ggacatggtt gtggagggtt
1501 gtgggtgtcg ctagtacagc aaaattaaat acataaatat atatata

SEQ ID NO: 11

GGATGGAGCTGTATCATCCTCTTCTTGGTAGCAACAGCTACA

SEQ ID NO: 12

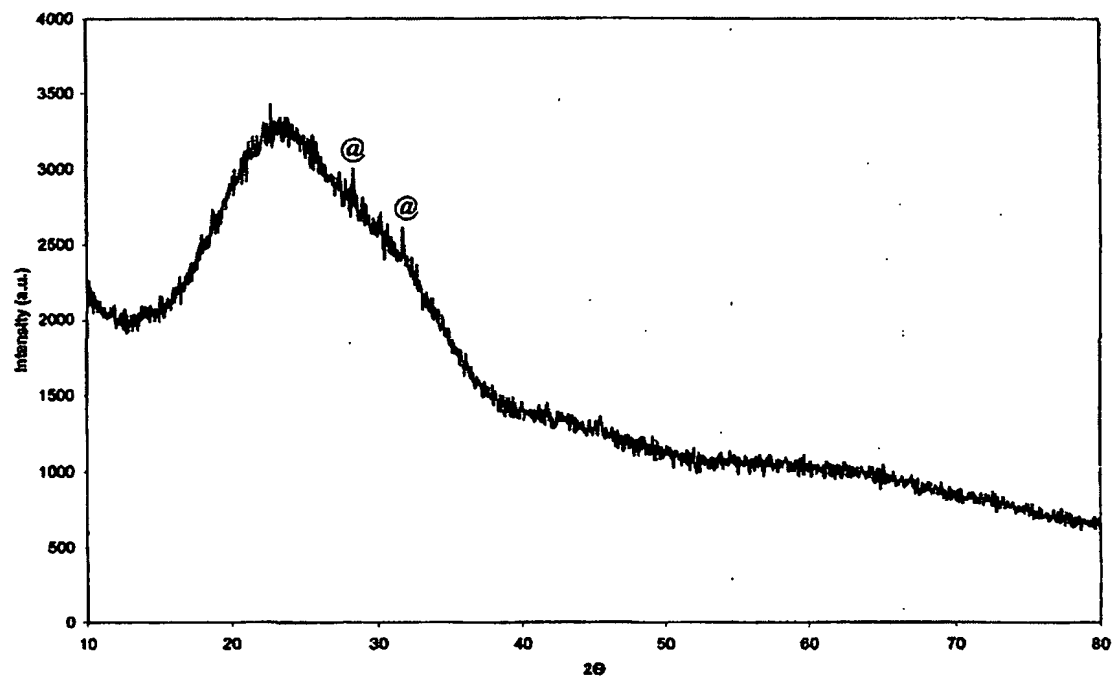
CTAATGTCGACATGGAGAGTGGCAGCCGTGGAGA

SEQ ID NO: 13

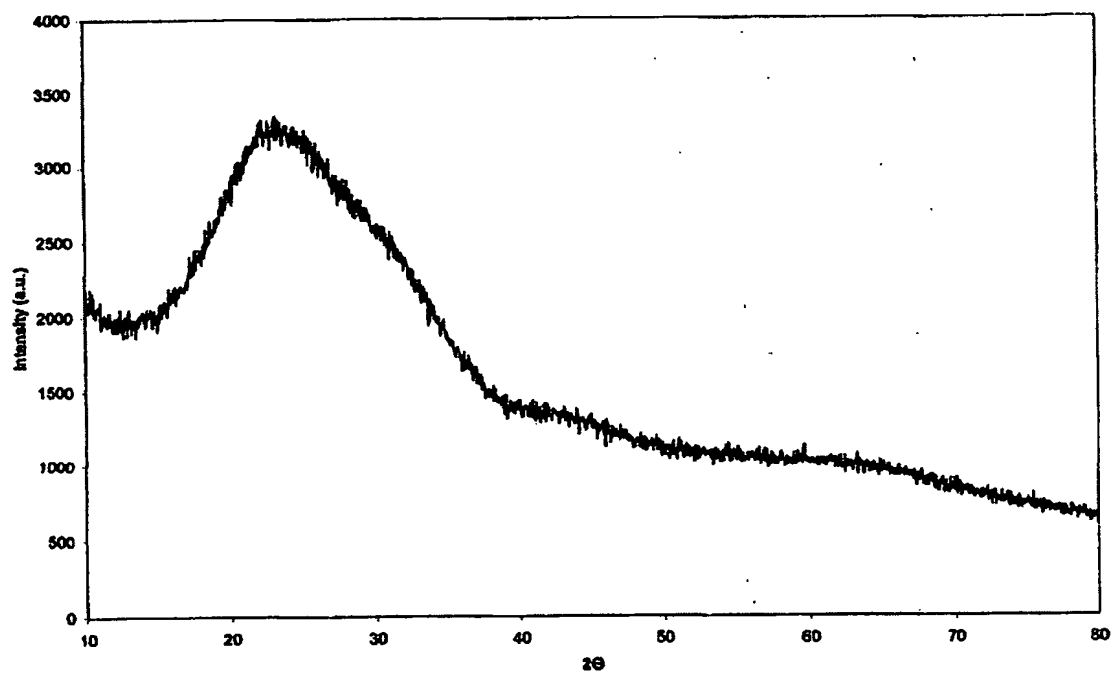
GCATTCTAGATTAAAGCACCCGCCATTCAAATCG

31/37

FIGURE 17

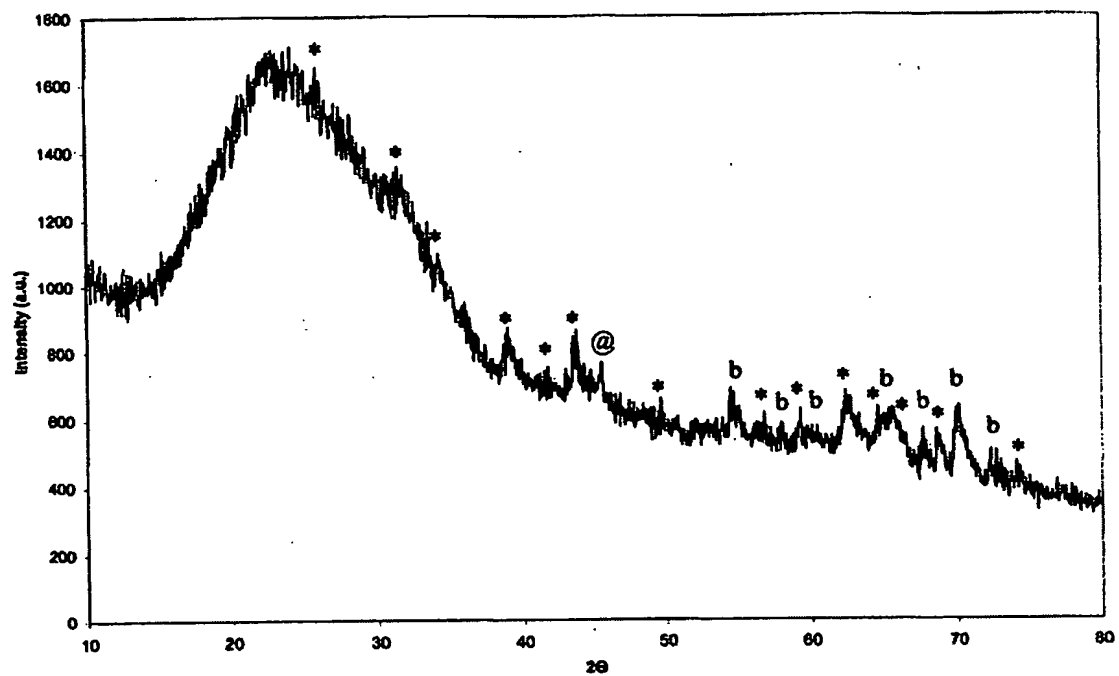


32/37

FIGURE 18

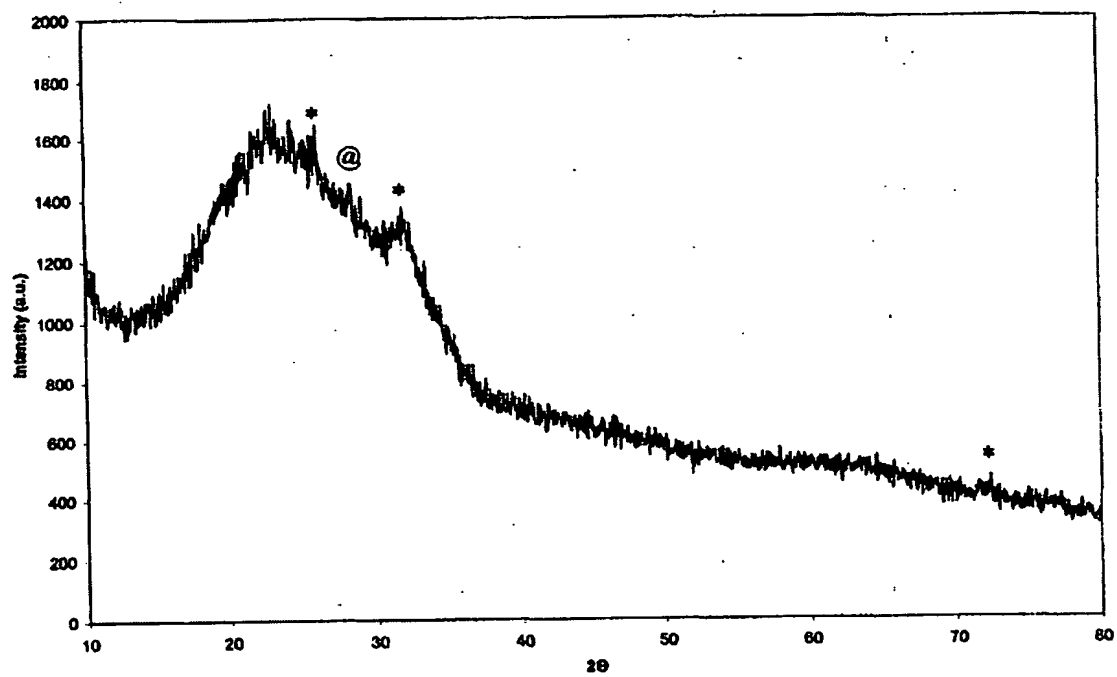
33/37

FIGURE 19



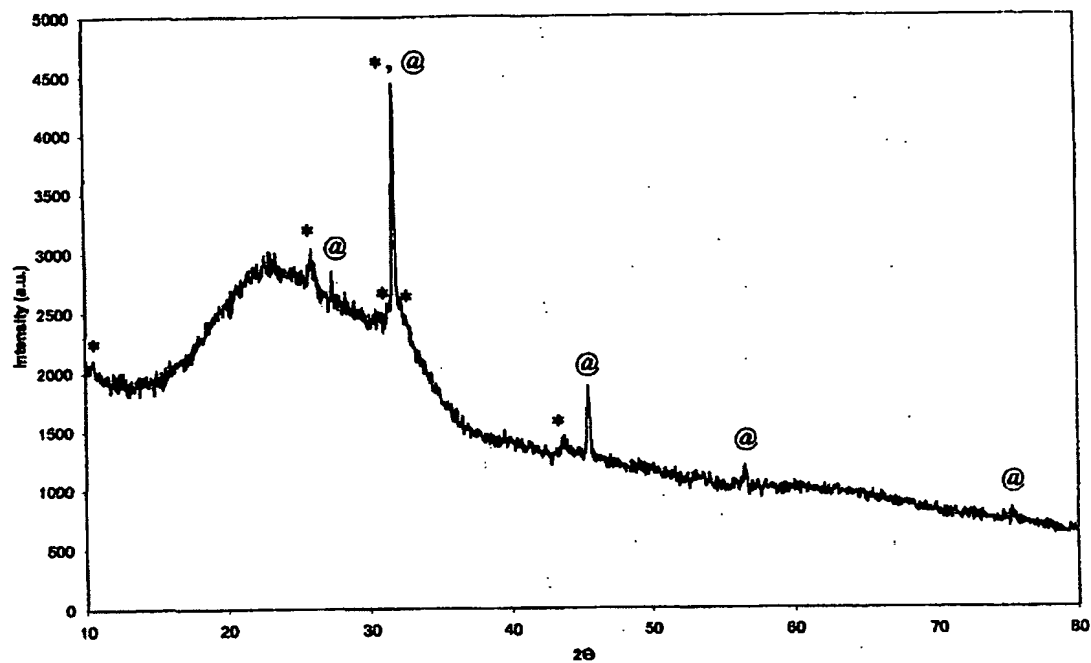
34/37

FIGURE 20



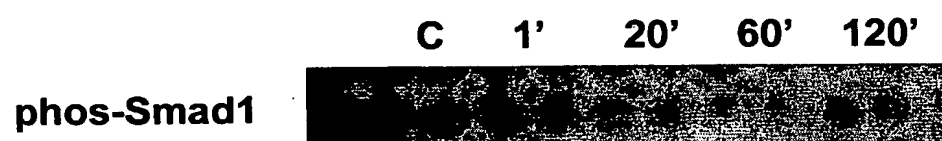
35/37

FIGURE 21



36/37

FIGURE 22



37/37

FIGURE 23